

Title (en)

SECONDARILY APPLIED COLD SIDE FEATURES FOR CAST HEAT EXCHANGER

Title (de)

SEKUNDÄR ANGEWENDETES KALTSEITENFEATURES FÜR GEGOSSENEN WÄRMETAUSCHER

Title (fr)

FONCTIONNALITÉS DU CÔTÉ FROID APPLIQUÉES SECONDAIREMENT POUR ÉCHANGEUR DE CHALEUR MOULÉ

Publication

EP 3553448 A1 20191016 (EN)

Application

EP 19167398 A 20190404

Priority

- US 201862653103 P 20180405
- US 201916278259 A 20190218

Abstract (en)

A heat exchanger (10) includes a primary plate (22; 64) including a first surface (40), a second surface (42), a leading edge (36), a trailing edge (38) and a plurality of internal passages (30; 76) extending between an inlet (32; 72) and an outlet (34; 74). A secondary plate (24; 66) is attached to at least one of the first surface (40) and second surface (42) of the primary plate (22; 64). The secondary plate (24; 66) includes heat transfer structures. A method is also disclosed.

IPC 8 full level

F28F 1/02 (2006.01); **F28F 1/30** (2006.01); **F28F 3/06** (2006.01)

CPC (source: EP US)

F28F 1/022 (2013.01 - EP US); **F28F 1/30** (2013.01 - EP US); **F28F 3/027** (2013.01 - US); **F28F 3/06** (2013.01 - EP US); **F28F 3/08** (2013.01 - US); **F28F 2215/00** (2013.01 - US)

Citation (search report)

- [X] US 2010326644 A1 20101230 - HUNG SHUI-HSU [TW], et al
- [X] EP 3279598 A1 20180207 - MITSUBISHI ELECTRIC CORP [JP]
- [X] WO 0181849 A1 20011101 - HONEYWELL INT INC [US]
- [A] US 2013153189 A1 20130620 - LIN CHIA-YU [TW], et al
- [A] US 2004261986 A1 20041230 - INSALACO JEFFREY L [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3553448 A1 20191016; **EP 3553448 B1 20210331**; US 2019310031 A1 20191010

DOCDB simple family (application)

EP 19167398 A 20190404; US 201916278259 A 20190218